

PLASTICIZER SELECTION GUIDE FOR PVC BELTING

CONVEYOR BELTS

IMPORTANT PROPERTIES

Food Conveying

Grain Conveying

General Conveying

Low-Temp Flexibility

Oil Extraction Resistance

Solvent Extraction Resistance

Viscosity @ 25°C, cPs

ADDITIONAL LINKS:
[PVC Brochure](#)
[Thermoplastic Modifiers](#)

POLYMERICS										
PRODUCT NAME	CHEMISTRY								DESCRIPTION	
Paraplex® A-8000	Adipate	•	•		1			1,000	Low MW polymeric ester. Offers excellent low-temperature performance. A-8000 also has better permanence, volatility and migration resistance than monomeric plasticizers. Good general performance plasticizer.	
Paraplex® A-8200	Adipate	•		•			3	720 @ 80°C, cSt	Medium MW polymeric ester. Offers excellent extraction resistance to both polar and non-polar mediums while still offering good low-temperature properties for a polymeric plasticizer. The low-fogging characteristics make A-8200 ideal for use in automotive interiors.	
Paraplex® A-8210	Adipate		•			•	•	2,200	Medium MW polymeric ester. Provides properties of high and low MW plasticizers; that is, permanence and ease of handling. Offers very good low-temperature performance (for a polymeric plasticizer) while offering improved extraction resistance. Good humidity resistance.	
Paraplex® A-8600	Adipate	•		•			3	900 @ 80°C, cSt	Medium MW polymeric ester. Provides a permanent plasticizer with superior humidity and extraction resistance. Offers excellent resistance to migration as well as polar and non-polar fluids; well suited for use in PVC that is in contact with ABS, polystyrene and lacquers.	
Paraplex® G-25	Sebacate				1	2		10,000 @ 80°C, cSt	High MW plasticizer combines plasticizing permanence and excellent compatibility. Ultimate in durability, excellent resistance to extraction in gasoline, oils, detergents and soapy water. Freedom from migration into plastics, rubber, lacquers, alkyds and varnish. Excellent compatibility in PVC resins where no tack or exudation is evident, even when exposed to high temperatures and humidity. Outstanding retention of physical properties after prolonged service at elevated temperatures.	
Paraplex® G-40	Adipate			•			3	4,100 @ 80°C, cSt	High MW permanent plasticizer offering excellent durability. G-40 has low volatility, excellent resistance to extraction by hydrocarbon solvents and freedom from migration. Well suited for PVC compounds which are in contact with rubber or rubber-based materials.	
Paraplex® G-41	Adipate			•	2	1		3,000 @ 80°C, cSt	High MW polyester plasticizer, similar to G-40, offering advantages in color, plasticizing efficiency, processing characteristics, compatibility at high plasticizer levels, and resistance to soap and detergent solutions. G-41 also exhibits better compatibility when exposed to high-temperature and high-humidity conditions. Excellent permanence properties in PVC as shown by very low volatility, resistance to migration into rubber or polystyrene type polymers and very low hydrocarbon extraction.	
Paraplex® G-54	Adipate			•		•	•	45 @ 25°C, TBR	Medium MW polyester developed specifically as a permanent plasticizer in PVC with good high humidity resistance at elevated temperatures. Well suited for PVC compounds in contact with lacquer, baked enamels, alkyd-type finishes, modified and unmodified polystyrene and rubber or rubber-based compounds. Excellent resistance to migration in rubber-based adhesives and is particularly useful for PVC electrical and surgical tape applications. Outstanding durability and non-fogging characteristics.	
Paraplex® G-57	Adipate			•		•	•	63 @ 25°C, TBR	Medium MW plasticizer providing a balance of the best properties of high and low MW plasticizers; that is, permanence and handling characteristics of a low MW plasticizer. Also provides high volume resistivity and dielectric strength in standard electrical formulations. In comparison with similar MW plasticizers, G-54 offers faster fluxing, higher tensile strength and greater elongation, as well as better resistance to polar and non-polar fluids, improved migration resistance and easier handling.	
Plasthall® P-643	Adipate	•						3,800	Low MW plasticizer well suited for applications requiring FDA acceptance. Has extraction and migration resistance superior to typical monomeric plasticizers, especially where stress cracking resistance is important.	
Plasthall® P-670	Adipate		•		1			1,250	Low MW plasticizer noted for its excellent efficiency, processing characteristics and low-temperature properties. Provides good permanence after exposure to humid conditions, soapy water and hexane.	

1 - first choice
 2 - second choice
 3 - third choice